

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

WIN-1907

Effective Date: July 1, 2014

Reevaluation Date: **July 2018**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series TR-3400 Aluminum Inswing Projected Windows, Non-Impact Resistant, manufactured by

Traco, a division of Kawneer
71 Progress Ave.
Cranberry Township, PA 16066
Telephone: (770) 840 - 6426

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

This evaluation report is for the Series TR-3400 aluminum inswing projected windows.

General Description:

This evaluation report includes the following inswing casement assembly:

Individual Projected Windows

Allowable Dimensions:

- **Individual Window:** 36" maximum frame height; 60" maximum frame width

Product Identification: A Kawneer label will be affixed to the window assembly.

Products Installed in Accordance with Drawing No. I-NX3200: The label includes the manufacturer's name (Kawneer); the product name (TR-3400 Aluminum Projected Window); that the design pressure and size are per drawing number I-NI3400; and that the product complies with AAMA/WDMA/CSA 101/IS2/A440-08.

LIMITATIONS

Design Drawings: Series TR-3400 projected windows shall be installed in accordance with the following drawing:

Drawing No. I-NI3400, titled "TR-3400 Inswing Projected Window," Sheets 1 thru 3 of 3, dated July 19, 2012, signed and sealed by Robert L. Clark, P.E on May 15, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Fabrication and Assembly: Kawneer aluminum projected windows are fabricated and assembled in the factory. The aluminum operable casement windows are glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design pressure (DP): ± 80 psf

Impact Resistance: This window assembly does not satisfy the Texas Department of Insurance's criteria for protection from windborne debris and the assemblies require an impact protective system.

Acceptance of Other Assemblies:

- Window assemblies with width and height dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified.

INSTALLATION INSTRUCTIONS

General: The assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available in the following document "TR-3400 Inswing Projected Window," by Traco, dated July 19, 2012.

Installation:

Wall Framing Construction: The aluminum storefront system may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 2,850 psi)
- Wood dimension lumber (minimum Spruce-Pine-Fir)
- Masonry – (ASTM C-90, Grade N, Type 1 or greater)
- Steel studs (minimum 16 gauge, 33 ksi)
- Steel (minimum 1/8" thick, A36 (minimum $F_y = 36$ ksi))
- Aluminum (minimum 1/8" thick, 6063-T5)

Fastener Requirements:

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.